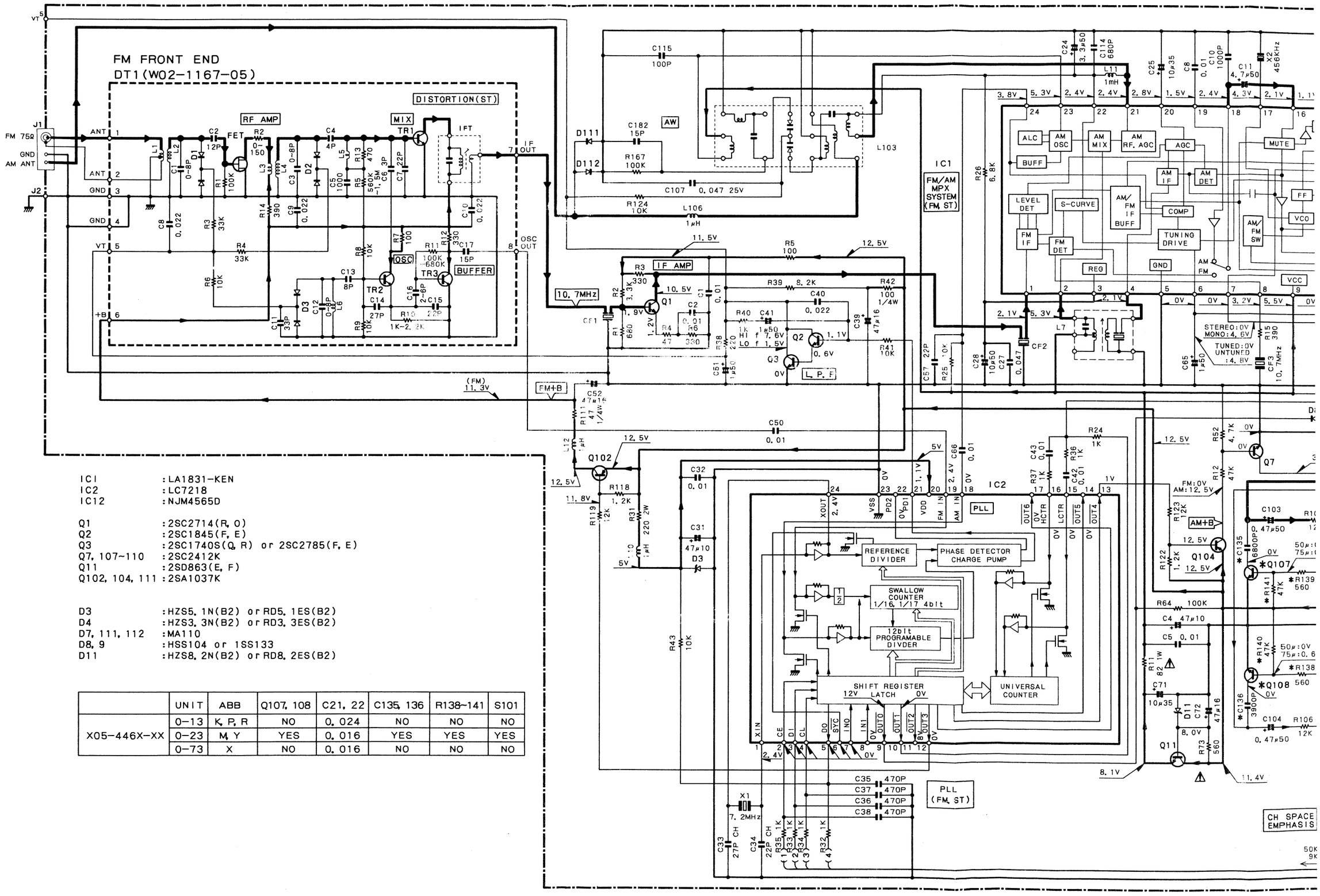
KENWOOD KRV 8070

MODEL

SERVICE MANUAL

X05-4460-13(K, P, R) X05-4460-23(M, Y) X05-4460-73(X)

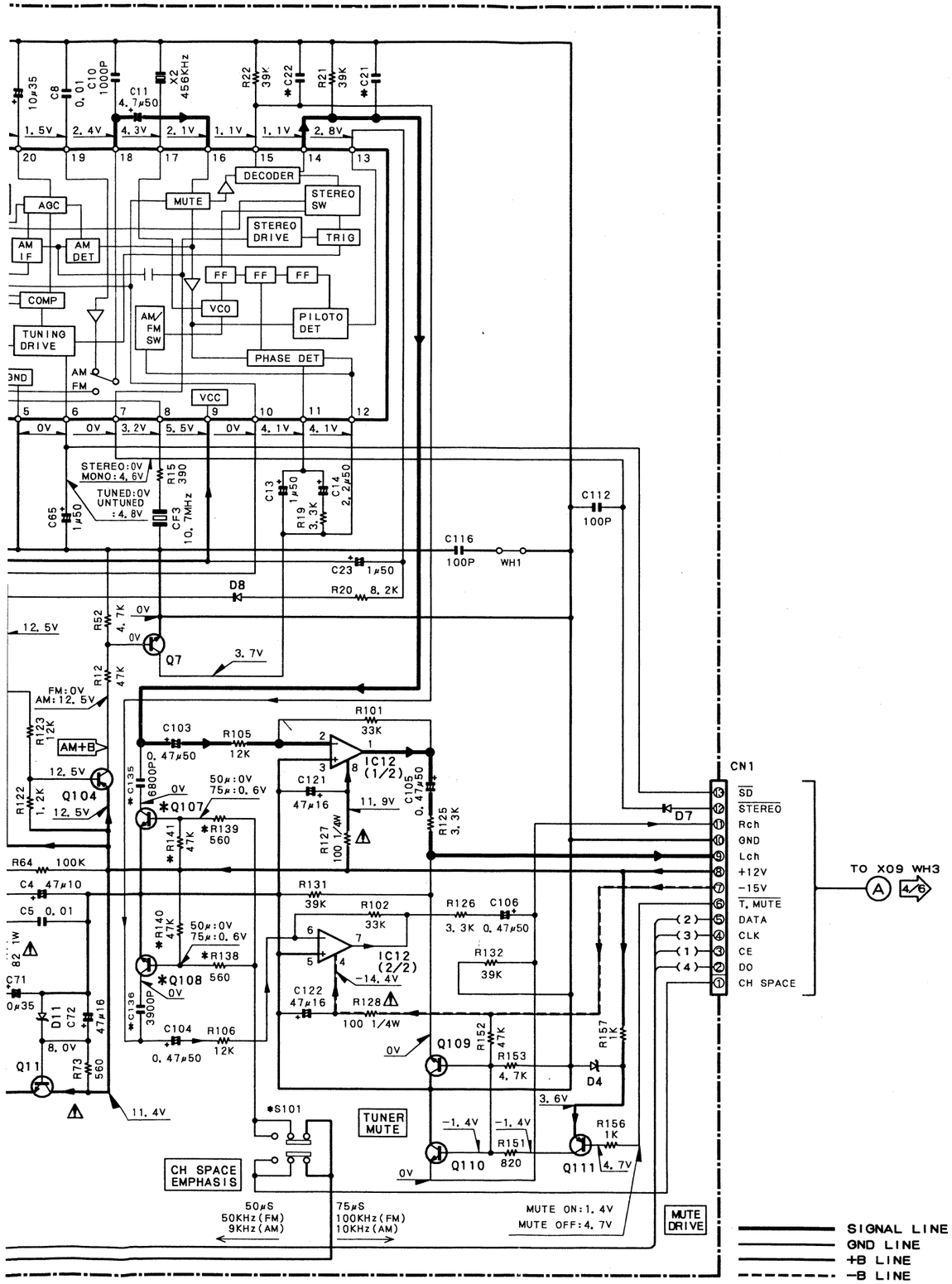


IC1 :LA1831-KEN
IC2 :LC7218
IC12 :NJM4565D

Q1 :2SC2714(R, O)
Q2 :2SC1845(F, E)
Q3 :2SC1740S(Q, R) or 2SC2785(F, E)
Q7, 107~110 :2SC2412K
Q11 :2SD863(E, F)
Q102, 104, 111 :2SA1037K

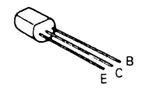
D3 :HZS5.1N(B2) or RD5.1ES(B2)
D4 :HZS3.3N(B2) or RD3.3ES(B2)
D7, 111, 112 :MA110
D8, 9 :HSS104 or 1SS133
D11 :HZS8.2N(B2) or RD8.2ES(B2)

	UNIT	ABB	Q107, 108	C21, 22	C135, 136	R138~141	S101
X05-446X-XX	0-13	K, P, R	NO	0.024	NO	NO	NO
	0-23	M, Y	YES	0.016	YES	YES	YES
	0-73	X	NO	0.016	NO	NO	NO

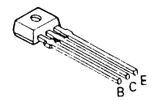


KR-V8070(1/6)

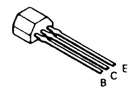
2SA1123
2SA1284
2SA1534A
2SA992
2SC1845
2SC2003
2SC2631
2SC2878
2SC3244
2SC3940A
2SD863



2SA1175
2SC2785



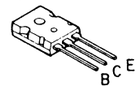
DTA124ES
DTC124ES
DTC143TS
UN4112
2SA933S
2SC1740S



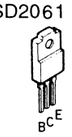
2SA1037K
2SC2412K
2SC2714

2SC4137

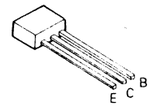
2SB1470
2SD2222



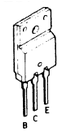
2SD2061



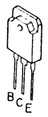
UN4212
UN4216



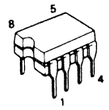
2SD2012
2SD2374



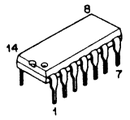
2SB1560
2SD2390



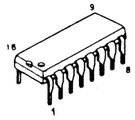
NJM4565D



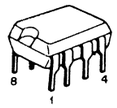
LA7951



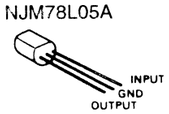
XRU4053B



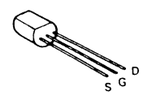
NJM4580D-D
NJM4580L



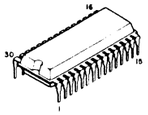
NJM78L05A



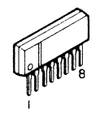
2SK246



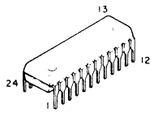
LC7536R



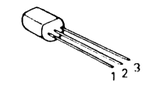
NJM072BL
NJM4565L



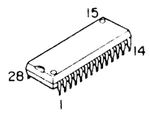
LC7218



S-80740AL



NJU7311AL
NJU7312AL
NJU7313AL



DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

45/1

KENW-04511

Y05-2940-10

KR-V8070

KENWOOD

(X14-3960-10) (B/4)

CN3 CN7 CN5 CN4 J3

SYSTEM CONTROL

J2

PLAY IN / VIDEO1 / REC OUT / PLAY IN / VIDEO2 / REC OUT / VIDEO3 PLAY IN / VIDEO MONITOR OUT

VIDEO SWITCH

IC319

Q451,452 VIDEO OUTPUT EMITTER FOLLOWER

J1

PLAY IN Lch / Rch — VIDEO2 Lch / REC OUT Rch — VIDEO3 PLAY IN Lch / Rch

CN9

V4 PLAY Lch / GND — V2 PLAY Rch / GND / Lch — V2 REC Rch / Lch — V3 PLAY Lch / GND / Rch

CN8

OUT Sch / Cch / Rch / Lch — IN Rch / Lch — N.B.CONT — V4 PLAY Rch

FRONT CH AMP

IC309,310 MIXING AMP

TEST S C — TEST R L

SELECTOR IC

IC314

IC317,318 NOISE MUTE CONTROL

IC317 (1/2) IC318 (2/2) D316

IC301 (1/2) IC302 (1/2) 6dB AMP

L.P.F

IC301 (2/2) IC302 (2/2)

IC307 (1/2) IC307 (2/2) IC308 (2/2) IC308 (1/2)

B.P.F

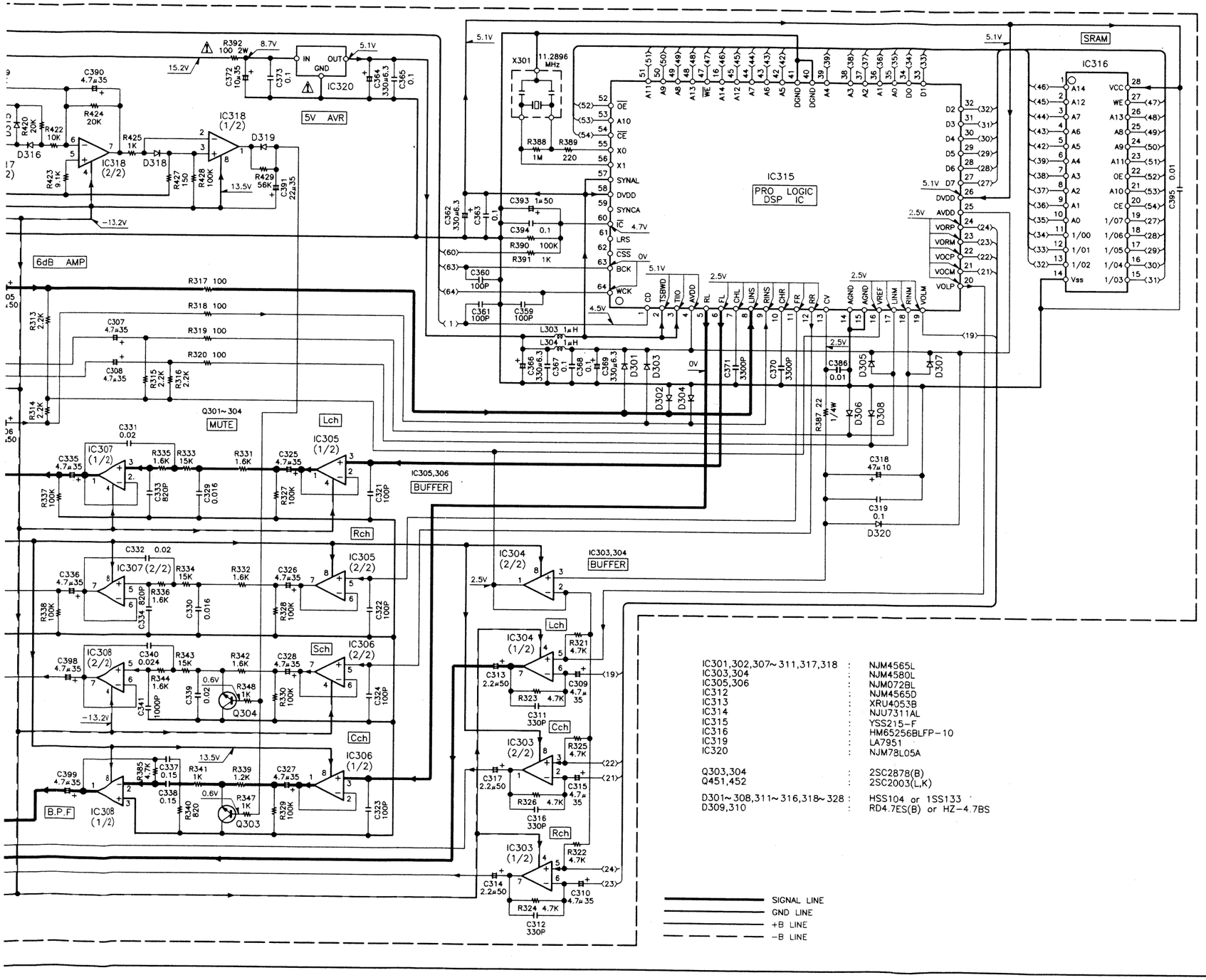
CENTER MODE CONTROL

IC312 (2/2) IC312 (1/2)

IC310 (2/2) IC310 (1/2) IC311 (1/2) IC309 (2/2) IC311 (2/2) IC309 (1/2)

PRO LOGIC/DSP LOGIC SELECTOR

IC313



IC301,302,307~311,317,318	:	NJM4565L
IC303,304	:	NJM4580L
IC305,306	:	NJM072BL
IC312	:	NJM4565D
IC313	:	XRU4053B
IC314	:	NJU7311AL
IC315	:	YSS215-F
IC316	:	HM65256BLFP-10
IC319	:	LA7951
IC320	:	NJM78L05A
Q303,304	:	2SC2878(B)
Q451,452	:	2SC2003(L,K)
D301~308,311~316,318~328	:	HSS104 or 1SS133
D309,310	:	RD4.7ES(B) or HZ-4.7BS

SIGNAL LINE
GND LINE
+B LINE
-B LINE

KR-V8070(K) (2/6)

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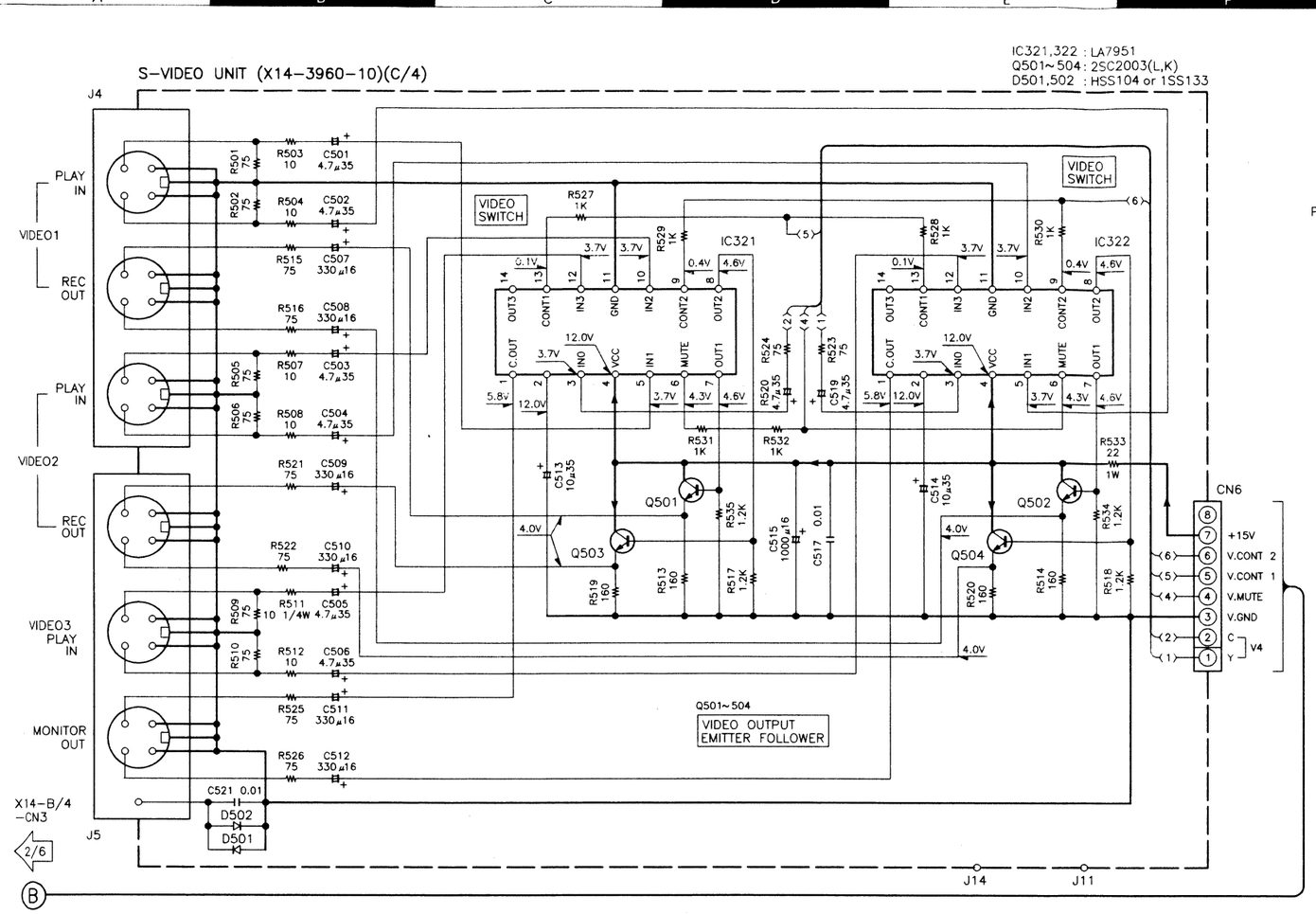
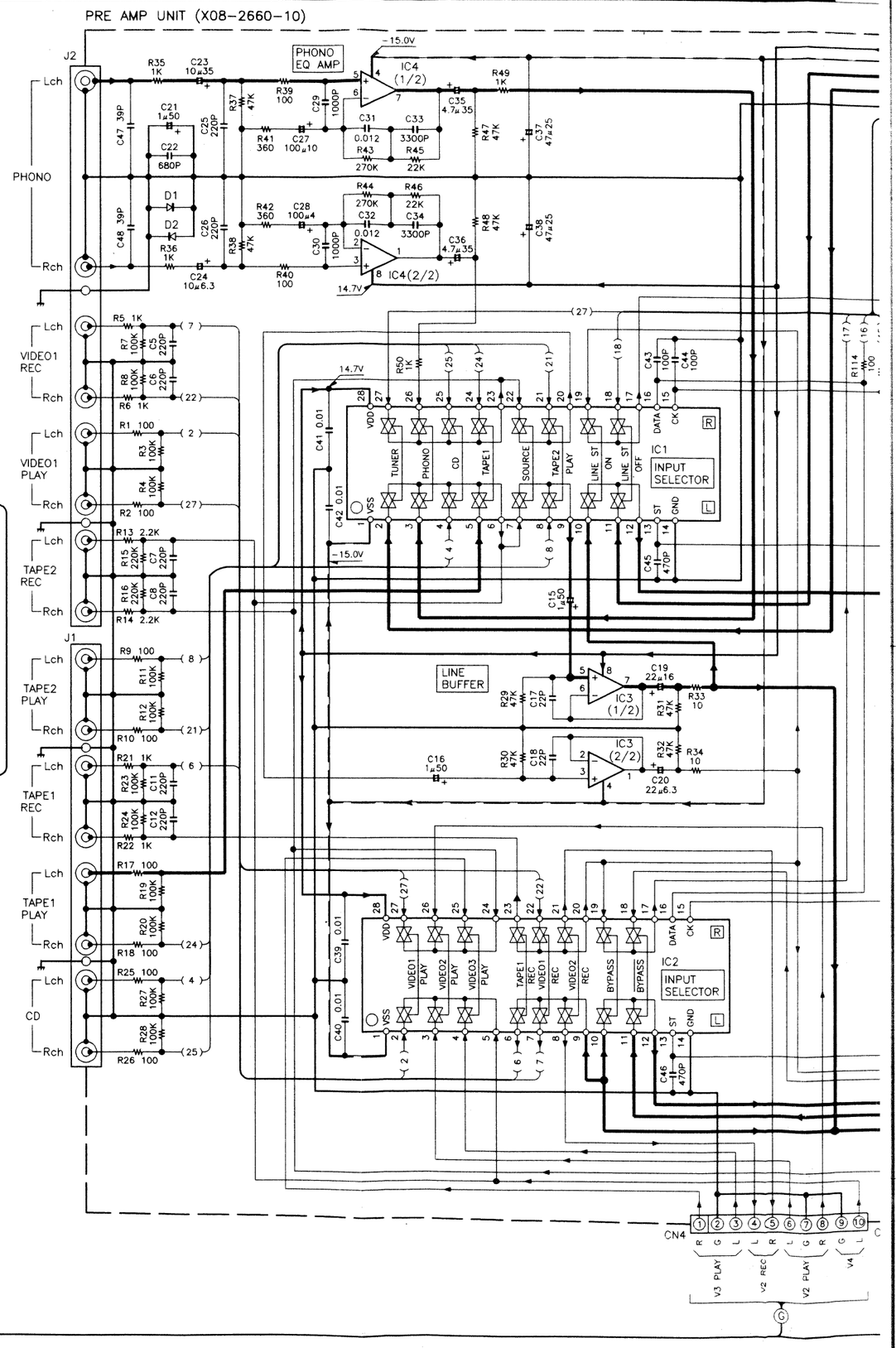
2/6

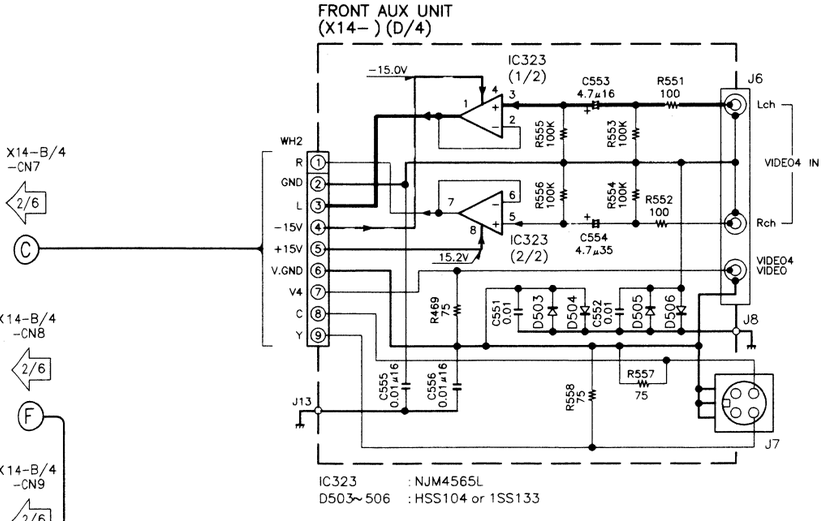
KR-V8070

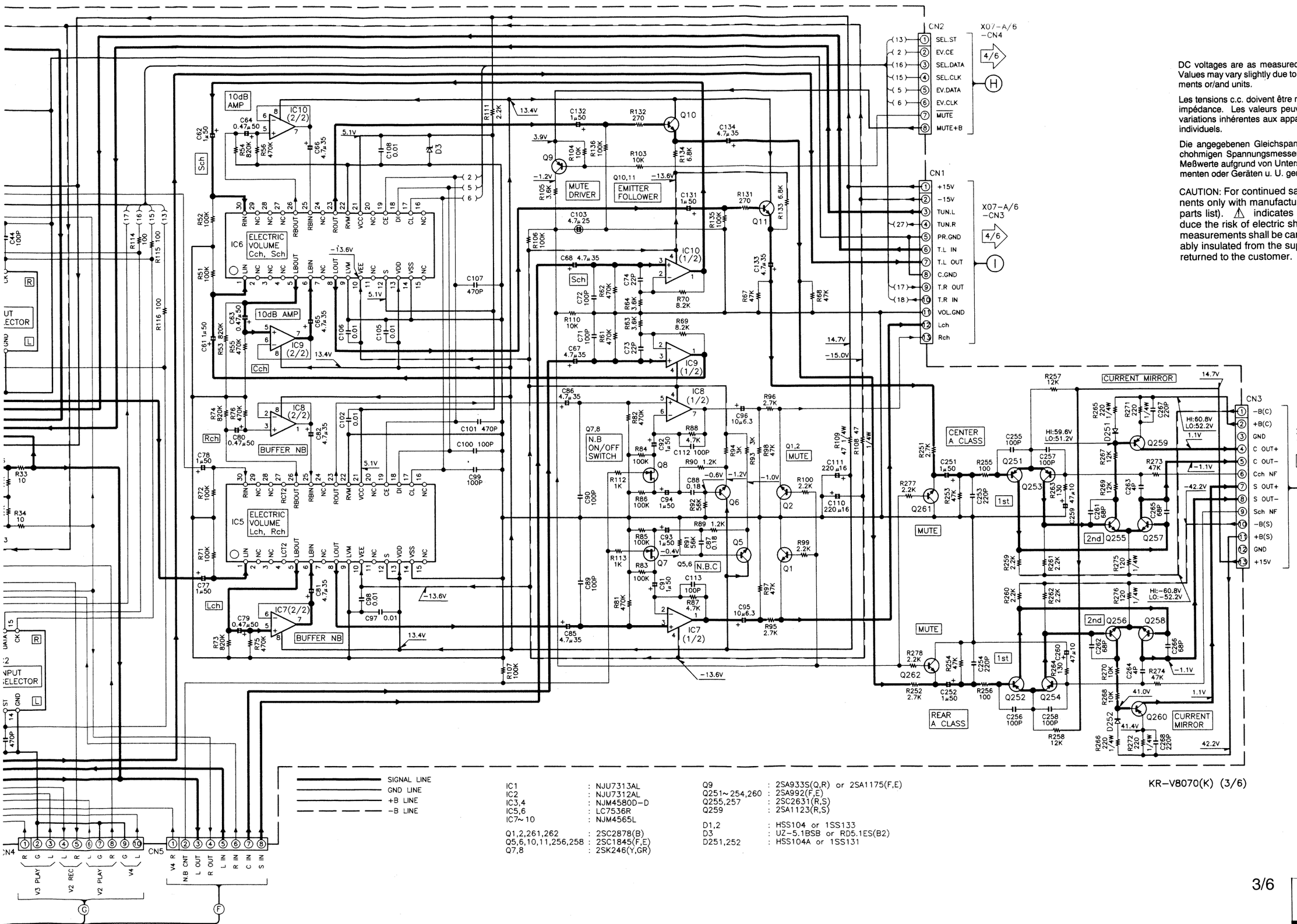
KENWOOD

Y05-2940-10


S-VIDEO UNIT (X14-3960-10)(C/4)
IC321,322 : LA7951
Q501~504 : 2SC2003(L,K)
D501,502 : HSS104 or 1SS133
J4
PLAY IN
VIDEO1
REC OUT
PLAY IN
VIDEO2
REC OUT
VIDEO3
PLAY IN
MONITOR OUT
X14-B/4
-CN3
2/6
J5
VIDEO SWITCH
VIDEO SWITCH
IC321
IC322
Q501
Q502
Q503
Q504
CN6
+15V
V.CONT 2
V.CONT 1
V.MUTE
V.GND
C
Y
V4
Q501~504
VIDEO OUTPUT
EMITTER FOLLOWER
J14
J11
B


PRE AMP UNIT (X08-2660-10)
J2
Lch
PHONO
Rch
PHONO EQ AMP
IC4 (1/2)
IC4(2/2)
VIDEO1 REC
VIDEO1 PLAY
TAPE2 REC
TAPE2 PLAY
J1
TAPE1 REC
TAPE1 PLAY
CD
IC1
INPUT SELECTOR
IC2
INPUT SELECTOR
LINE BUFFER
IC3 (1/2)
IC3 (2/2)
CN4
V3 PLAY
V2 REC
V2 PLAY
V4
C


FRONT AUX UNIT
(X14-) (D/4)
IC323 (1/2)
IC323 (2/2)
WH2
R
GND
L
-15V
+15V
V.GND
V4
C
Y
J6
Lch
VIDEO4 IN
Rch
VIDEO4 VIDEO
J8
J13
J7
X14-B/4
-CN7
2/6
C
X14-B/4
-CN8
2/6
F
X14-B/4
-CN9
2/6
G
IC323 : NJM4565L
D503~506 : HSS104 or 1SS133



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SIGNAL LINE
GND LINE
+B LINE
−B LINE

IC1	: NJU7313AL	
IC2	: NJU7312AL	
IC3,4	: NJM4580D−D	
IC5,6	: LC7536R	
IC7~10	: NJM4565L	
Q1,2,261,262	: 2SC2878(B)	
Q5,6,10,11,256,258	: 2SC1845(F,E)	
Q7,8	: 2SK246(Y,GR)	
Q9	: 2SA933S(Q,R) or 2SA1175(F,E)	
Q251~254,260	: 2SA992(F,E)	
Q255,257	: 2SC2631(R,S)	
Q259	: 2SA1123(R,S)	
D1,2	: HSS104 or 1SS133	
D3	: UZ−5.1BSB or RD5.1ES(B2)	
D251,252	: HSS104A or 1SS131	

KR−V8070(K) (3/6)

Y05-2940-10

KR-V8070

KENWOOD

MAIN AMP UNIT
(X07-284X-XX) (A

X05-
-CN1
1/6
A

X14-B/4
-CN5
2/6
D

X14-B/4
-CN4
2/6
E

X08-3/6
-CN2
3/6
H

X08-3/6
-CN1
3/6
I

X08-3/6
-CN3
3/6
J

CN3
Rch
Lch
VOL GND
TONE ROUT
TONE RIN
C. GND
TONE LIN
TONE LOUT
PURE GND
TUNER R
TUNER L
-15V
+15V

WH6
CH SPACE
PLL DO
PLL CE
CLK
DATA
TUNER MUTE
-15V
+12V
TUNER L
GND
TUNER R
STEREO
SD

J11
C108
0.022

CN4
MUTE +B
MUTE
EVOL CLK
EVOL DATA
SEL CLK
SEL DATA
EVOL CE
SEL ST

CN5
+15V
GND S
Vee(+B)S
Vee(-B)S
Sch NF
S IN-
S IN+
Cch NF
C IN-
C IN+
GND C
VCC(+B)C
VEE(-B)C

HI:-60.8V
LO:-52.2V
HI:60.8V
LO:52.2V

CN2
S DATA
S BUSY
Y.CE
Y.IC
Y.DATA
Y.CLK
SEL ST
SEL DATA
SEL CLK
NOISE MUTE
VIDEO 1/2
POWER(V.MUTE)

R154 100

CN6
EVOL .CE
SEL ST
Y.CE
Y.IC
NOISE MUTE
DATA MUTE
CH SPACE
PLL DO
PLL CE
CLK(PROTECT)
DATA(4/8)
TUNER MUTE
STEREO
SD
-15V
+15V
TONE L IN
TONE L OUT
TONE GND
TONE R OUT
TONE R IN
NC
NC
NC

D30
5.1V(4Ω)
0V (8Ω)

D71 D73 D72
R120 10K
C53 0.047
D31

3.5V Q51 Q52 4.7V Q54 Q53
R73 4.7K
R74 4.7K
R75 4.7K
R76 4.7K
Q51~54
DATA MUTE

42.1V
-42.1V

R77 120 2W
R134 120 2W

D54
26.8V
C42 47μ16
R111 10K
C40 1000μ35
D56
C41 470μ35
±15V. VIDEC
DSP 15V
C43 47μ16
R115 10K
-29.2V

C35 1μ100
C36 10μ100
C34 1μ100
C33 10μ100
R80 33 1/4W
R81 33 1/4W

Q1,2,5,6
FINAL.TR

R140 12K 1/4W
R133 4.7K 1/4W
D78
C97 4.7μ35

SP RELAY
ON/OFF
Q37
K3
D33

D91 D19 D18 D17
D92 D22 D21 D20
R79 33 1/4W
R78 33 1/4W
42.3V
-42.3V

D53
C38 3300μ
C39 3300μ
56

R6 22 1/4W
1.1V
C4 0.01
R2 9.1K
-0.5V
Q10
R4 2.7K
0.33×2 5W
Sch
CP4
VR4 2.2K
S IDLE
-1.1V
R8 22 1/4W
-42.3V

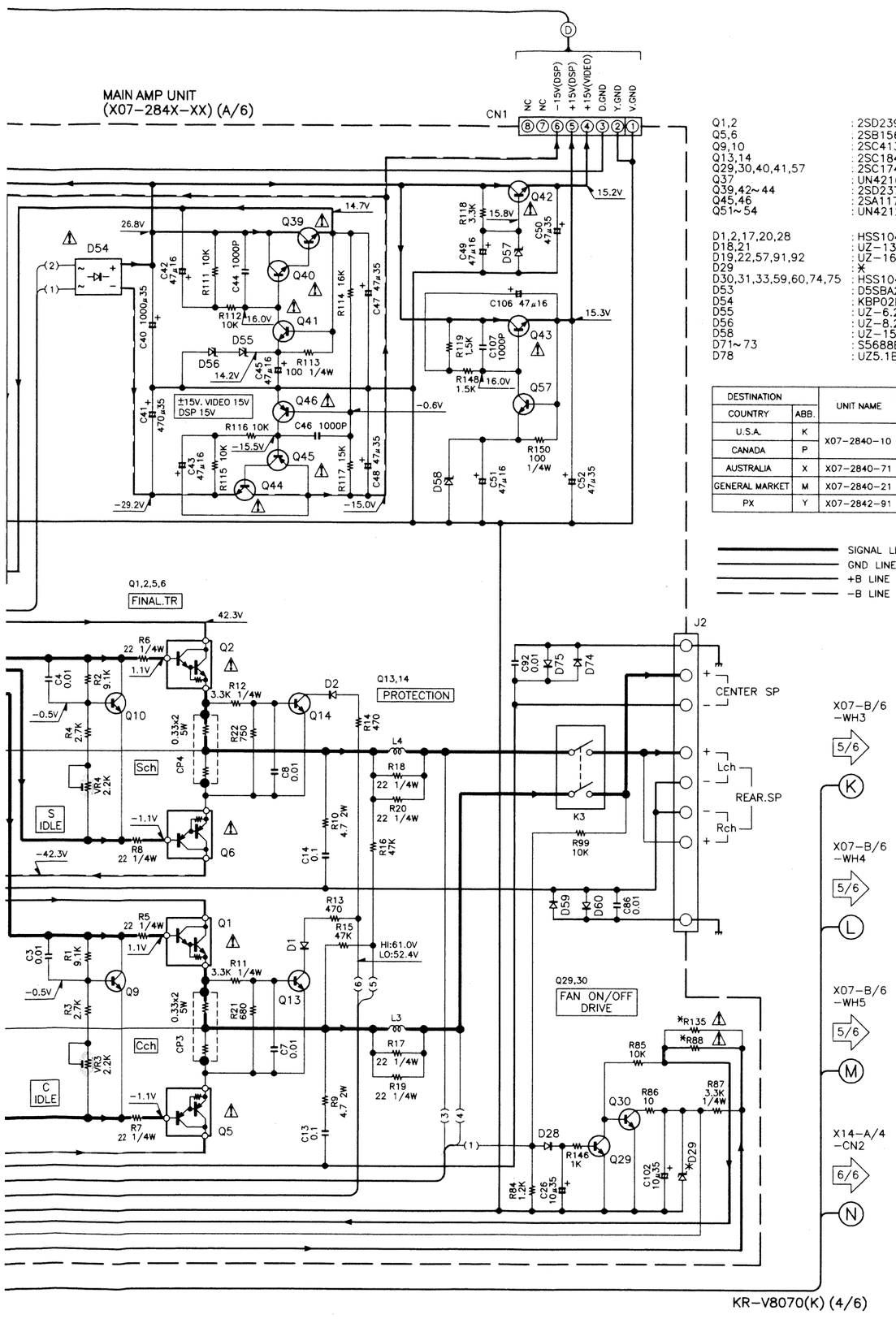
R5 22 1/4W
C3 0.01
R1 9.1K
Q9
R3 2.7K
Cch
CP3
VR3 2.2K
C IDLE
R7 22 1/4W

WH3
GND
RELAY +V
-15V
GND
NC
NC
GND
+B
+B
GND
GND
-B
GND
PAN+V
PAN ON/OFF

WH4
FAN LEVEL
4/8
S OUT
C OUT
CS RELAY
AC
GND
GND
AC

WH5
AC
AC
GND
PROTECT
DC PROTECT
I PROTECT
VIDEO 1/2
MUTE
S DATA
S BUSY
POWER
D GND
Lch
GND
Rch

K
L
M
N



Q1,2	: 2SD2390
Q5,6	: 2SB1560
Q9,10	: 2SC4137
Q13,14	: 2SC1845(F,E)
Q29,30,40,41,57	: 2SC1740S(Q,R) or 2SC2785(F,E)
Q37	: UN4216 or DTC143TS
Q39,42~44	: 2SD2374 or 2SD2012 or 2SD2061
Q45,46	: 2SA1175(F,E) or 2SA933S(Q,R)
Q51~54	: UN4212 or DTC124ES
D1,2,17,20,28	: HSS104A or 1SS131
D18,21	: UZ-13BSB or RD13ES(B2)
D19,22,57,91,92	: UZ-16BSB or RD16ES(B2)
D29	: *
D30,31,33,59,60,74,75	: HSS104 or 1SS133
D53	: D5SBA20F03 or RBV-602LFA
D54	: KBP02ML-6127
D55	: UZ-6.2BSB or RD6.2ES(B2)
D56	: UZ-8.2BSB or RD8.2ES(B2)
D58	: UZ-15BS or RD15ES(B)
D71~73	: S5688B or 1SR139-100
D78	: UZ5.1BS or RD5.1ES(B)

DESTINATION		UNIT NAME	D29	R88,135
COUNTRY	ABB.			
U.S.A.	K	X07-2840-10	RD6.2ES(B2) or UZ-6.2BSB	220 2W
CANADA	P			
AUSTRALIA	X	X07-2840-71	RD8.2ES(B2) or UZ-8.2BSB	100 2W
GENERAL MARKET	M	X07-2840-21		
PX	Y	X07-2842-91		

KR-V8070(K) (4/6)

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4/6

KR-V8070

Y05-2940-10

KENWOOD

(X07-284X-XX)(B/6)

DESTINATION	
COUNTRY	ABB.
U.S.A.	K
CANADA	P
AUSTRALIA	X
GENERAL MARKET	M
PX	Y

(M,Y)TYPE

⚠ 120V
0V
120V
0V
TF150°C

FRONT CH A CLASS

IC1 MUTE OUT +L OUT −L HI:58.8V LO:50.2V NF L IN L GND IN R NF R HI:−58.8V LO:−50.2V OUT −R OUT +R HI:60.4V LO:51.7V VCC HI:−60.4V +V LO:−51.7V −V

D79 R211 20K R210 43K 4.4V Q38 3.8V 2.3V

Q38 A CLASS IC ON/OFF

C217 100µ10 R141 82K

R209 820 1.1V −1.2V

R143 20K R203 1K C211 47P R207 270 C215 100µ10

R205 47K C213 5P R201 47K C203 680P C201 1µ50 R139 470K C202 1µ50 R138 470K C204 680P R202 47K C214 5P R206 47K R208 270 C216 100µ10 R204 1K C212 47P

C207 3P C209 10P C205 150P C206 150P C208 3P C210 10P

A CLASS IC POWER R142 82K R144 20K

Q56 Q55 R83 1.2K R82 1.2K

C104 10µ100 C32 22µ100 C103 10µ100 C31 22µ100

D87 D88 D89 D84 D85 D86

Q17~20 Q33,34 LIMITER

D13 D9 D5 D81 Q17 Q19 D83 D15 D11 D7 R69 10K R71 10K 0.6V −0.7V

D14 D10 D6 D80 Q18 Q20 D82 D16 D12 D8 R70 10K R72 10K 0.6V −0.7V

R131 10K C37 470P R130 47K R129 2.2K Q34 Q33 −14.9V −14.3V 0.6V −15.0V

Q3,4,7,8 FINAL TR

Q3 R27 220 1/4W C95 3300P Q11 R23 9.1K C1 0.01 −0.6V 1.1V R25 2.7K R33 3.3K 1/4W R43 510 0.33x2 5W CP1 VR1 2.2K L IDLE Lch C5 0.01 −1.1V C96 3300P Q7 R29 220 1/4W

Q4 R28 220 1/4W C99 3300P Q12 R24 9.1K C2 0.01 −0.5V 1.1V R34 3.3K 1/4W R44 510 0.33x2 5W CP2 VR2 2.2K R IDLE Rch C6 0.01 −1.1V C100 3300P Q8 R30 220 1/4W

HI:60.5V LO:52.2V D3 Q15 D4 Q16

Q15,16 PROTECTION

R35 470 R31 4.7 2W C9 0.1 R37 47K R36 470 R38 47K C10 0.1

L1 00 R41 22 1/4W R39 22 1/4W L2 00 R40 22 1/4W R42 22 1/4W

Q21~25 MUTE

R65 10K Q25 R67 510 R94 4.7µ50 R64 10K Q23 R68 510 D61 C85 0.01 R63 15K 1/4W R123 100

MUTE ON:1.3V MUTE OFF:−14.8V

Q24 R61 10K R62 510 D62 C84 0.01 D63 C83 0.01 R125 15K 1/4W R124 100

R50 15K 1/4W R56 100 R52 10K Q22 R54 510 D64 C82 0.01 Q21 R53 510 R51 10K R49 15K 1/4W R55 100

R66 12K 1/4W R58 12K 1/4W R57 12K 1/4W

J3 S.W Cch Sch PRE OUT Sch Rch Lch

R122 100 R123 100

R59 560 2W R60 560 2W

CN27 WH8 J4 HEADPHONE UNIT (X07)(E/6)

D65 D66 C81 0.01 J1 D69 D70 J8 C93 0.01

K1 K2 A.SP B.SP FRONT SPEAKERS Lch Rch

D67 D68 C76 0.01 ⚠ MUTE ON :1.3V MUTE OFF :−14.8V

Q26~28 PROTECTION

D23 Q28 Q27 R98 6.2K R97 10K C30 220µ6.3 HI:61.0V LO:52.4V

R96 3.3K R95 27K C29 4.7µ35 Q26 D25 D26 R147 330 D24 0V

R92 12K 1/4W R93 6.8K 4.1V MUTE R91 5.6K Q32 R153 100 R90 100K C27 10µ25 C28 10µ35 D27

MUTE OFF :4.6V MUTE ON :1.7V

THERMAL SWITCH CN25 S3 R89 100 CN26 M FAN MOTOR

FAN OFF:24.3V FAN ON:7.6V R145 Q31 FAN ON/OFF DRIVE

C105 0.01

CN7 FIL FIL FIRST OFF +5.6V D.GND D.GND −30V POWER C.S RELAY VIDEO 1/2 MUTE SP A SP B S DATA S BUSY NC

CN28 F.OFF (µ−COM) +5.6V D GND POWER (V MUTE)

J5 D76 D77 C98 0.01

Q35,36 SP RELAY ON/OFF

Q35 Q36 R151 100 R149 100 0.1V 4.6V K1 K2 D34 D35

X07-A/6 -WH3 4/6 K

X07-A/6 -WH4 4/6 L

X07-A/6 -WH5 4/6 M

WH5 AC AC GND PROTECT DC PROTECT I PROTECT VIDEO 1/2 MUTE S DATA S BUSY POWER D.GND Lch GND Rch

R152 100

WH4 FAN LEVEL 4/8 S OUT C OUT CS RELAY AC GND GND AC

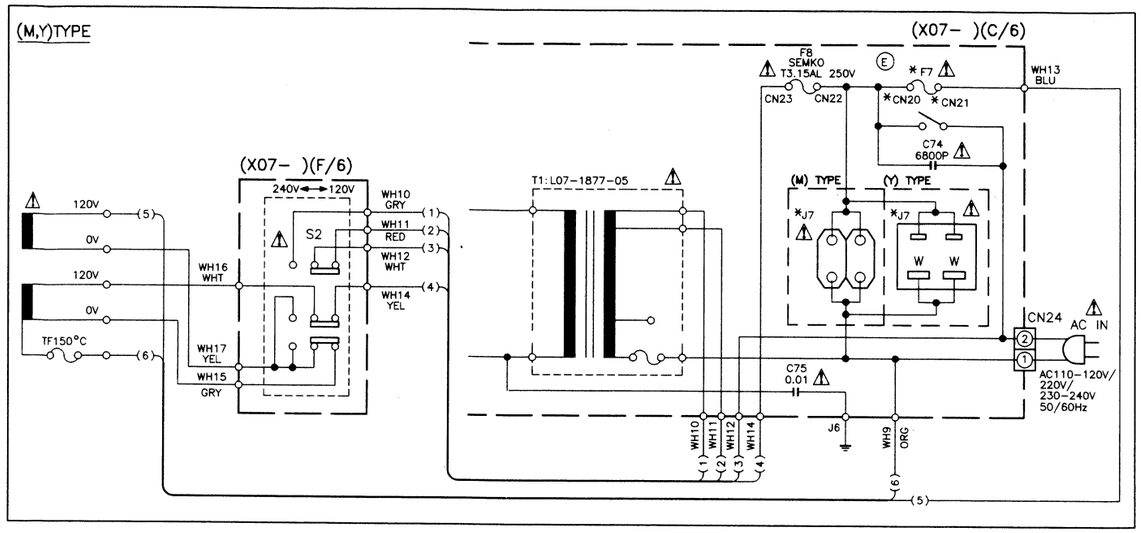
WH3 GND RELAY +V −15V GND NC NC GND +B +B GND GND −B GND FAN +V FAN ON/OFF

C60 1000P C59 10µ35 D50 D51 C58 47µ63 −32.8V R102 6.8K 1/4W Q50 −32.3V −47.5V HI:60.4V LO:57.9V R105 16K 1/4W

4Ω/8Ω DET

DESTINATION		UNIT NAME	J7	F1,2	F3,4	F5,6	F7	F9,10	W243 ~246	CN12~15, 29~32	CN20,21	D9~12	D80~83	C57	R69~72, 129~131	R121	R145	Q17~20, 33,34
COUNTRY	ABB.																	
U.S.A.	K	X07-2840-10	E03-0148-05	YES	UL 4A 125V	UL 2A 125V	UL 8A 125V	NO	YES	NO	J13-0041-05	RD24ES(B2) or UZ-24BSB	RD11ES(B2) or UZ-11BSB	100µ35	YES	YES	56 2W	YES
CANADA	P							YES	NO	YES								
AUSTRALIA	X	X07-2840-71	NO	NO	SEMKO T4AL 250V	SEMKO T1AL 250V	SEMKO T3.15AL 250V	NO	YES	NO	J13-0075-05	RD20ES(B2) or UZ-20BSB	RD13ES(B2) or UZ-13BSB	330µ16	NO	NO	27 2W	NO
GENERAL MARKET	M	X07-2840-21	E03-0149-05															
PX	Y	X07-2842-91	E03-0148-05															

X14-A/4
-CN1
6/6



IC1	: µPC2581V
Q3,4	: 2SD2222
Q7,8	: 2SB1470
Q11,12	: 2SC4137
Q15~18,27,28,38	: 2SC1845(F,E)
Q19,20,26,49	: 2SA992(F,E)
Q21~25	: 2SC2878(B)
Q31	: 2SD2374 or 2SD2012 or 2SD2061
Q32	: UN4112 or DTA124ES
Q33	: 2SC1740S(Q,R) or 2SC2785(F,E)
Q34	: 2SA933S(Q,R) or 2SA1175(F,E)
Q35,36	: UN4216 or DTC143TS
Q47	: 2SC3940A(R,S)
Q48	: 2SC2003(L,K)
Q50	: 2SA1534A(R,S)
Q55	: 2SC3244
Q56	: 2SA1284
D3~8,23,43,44,48,49	: HSS104A or 1SS131
D9~12	: *
D13~16,51	: UZ-16BSB or RD16ES(B2)
D24,26,34,35,37,38,61~70,76,77,79	: HSS104 or 1SS133
D25,36	: UZ-5.6BSB or RD5.6ES(B2)
D27	: UZ-4.7BS or RD4.7ES(B)
D39~42,45,47	: S5688B or 1SR139-100
D46	: D5FB20-4002-L20
D50	: UZ-18BS or RD18ES(B)
D52	: UZ-6.2BSB or RD6.2ES(B2)
D80~83	: *
D84,85,87,88	: UZ-30BS or RD30ES(B)
D86,89	: UZ-10BS or RD10ES(B)
D90	: UZ-2.7BSB or RD2.7ES(B2)

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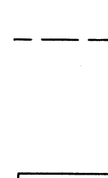
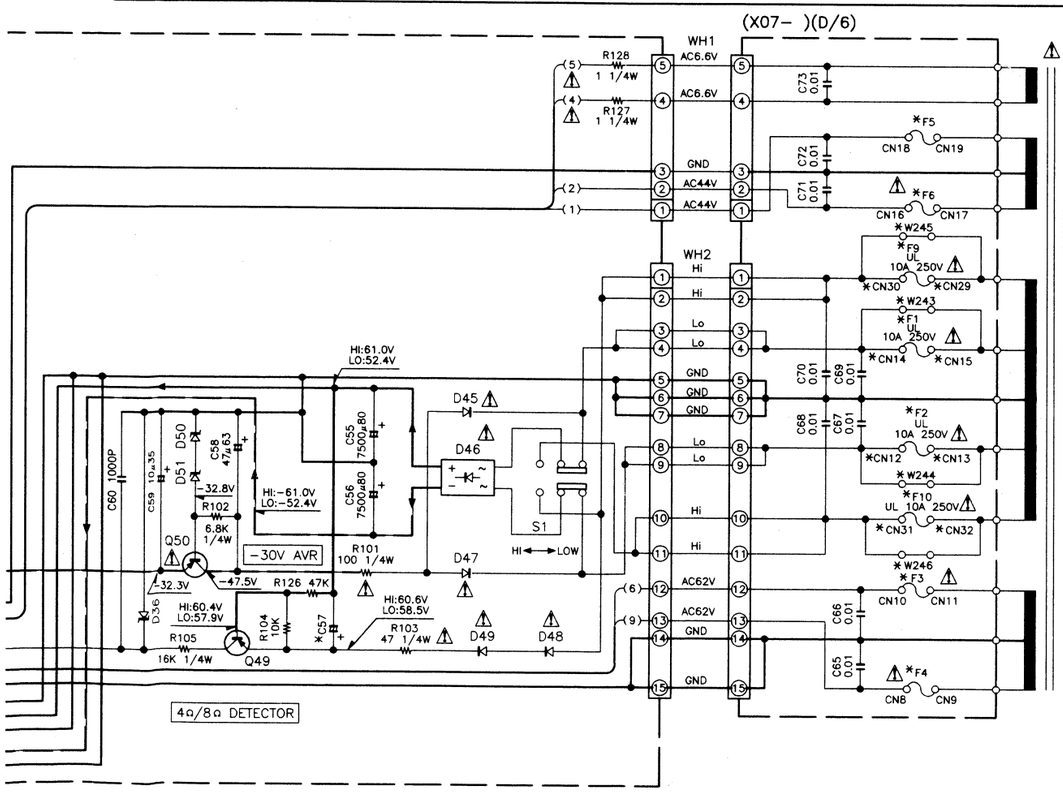
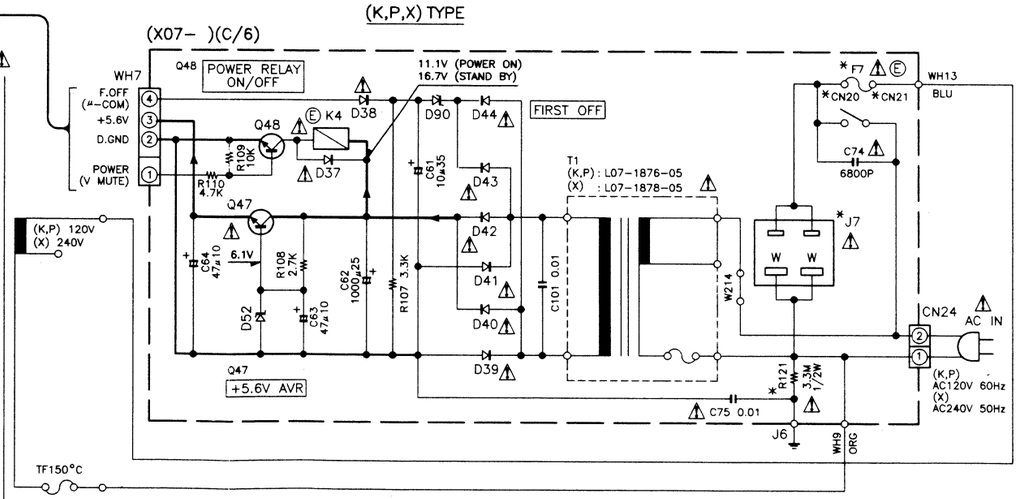






SIGNAL LINE
GND LINE
+B LINE
-B LINE

KR-V8070(K) (5/6)

Y05-2940-10

KR-V8070

KENWOOD

DISPLAY UNIT (X14-369X-XX) (A/4)

X07-
-CN6
4/6
N

ED1

11G 10G 9G 8G 7G 6G 5G 4G 3G 2G 1G

SPEAKERS
A B
VISUAL FIX
VIDEO 4 3 2 1
FM AM AF PTY RDS
dB ms kHz MHz
SURROUND 3 STEREO TAPE 2 AUTO
DSP DSP LOGIC LINE STRAIGHT STEREO TUNED
MUTE N.B. MEMORY
col col Dp

F2 F2 NP NP P16 P15 P14 P13 P12 P11 P10 P9 P8 P7 P6 P5 P4 P3 P2 P1 IC NP NP NP NP NP NP NP NP NP NP NP NP NP NP NP NP NP NP NP NP Fd Fd NP NP NP NP NP IC 1G 2G 3G 4G 5G 6G 7G 8G 9G 10G 11G NP NP F1 F1

R108 27K R109 27K

(60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (72) (73) (74) (75) (76) (77) (78) (79) (8) (1) (2) (3) (4) (5) (6)

CP1 100Kx8

(16) (15) (14) (13) (12) (11) (10) (9)

C18 0.022 C17 0.01

R54 2.2K R53 2.2K

(18) (19)

(22) (23) (24) (25) (26)

R55 2.2K R56 2.2K R52 10K

C10 0.01

R58 10K

R59 10K R60 10K

R50 100

R48 100K -29.4V Q2 -29.6V R49 100K

-32.3V

R19 220 1/4W -24.4V
R20 220 1/4W -24.4V
D1
R21 3.3K
C5 4.7µ35
C6 4.7µ35

A1
C7 33µ16
4.8V
R22 10 1/4W
D3

CN1
FIL (1)
FIL (2)
F.OFF (3)
+5.6V (4)
D.GND (5)
D.GND (6)
-30V (7)
POWER RELAY (8) R1 100 (13)
SP.CS RELAY (9) R2 100 (16)
VIDEO 1/2 (10) R3 100
MUTE (11)
SP.A RELAY (12) R4 100 (15)
SP.B RELAY (13) R5 100 (14)
S.DATA (14)
S.BUSY (15)
NC (16)

X07-B/6
-CN7
5/6

C46 0.01 -32.3V

D4 R6 1K 5.6V
IC2 IN OUT GND 5.2V
R7 10K
D2 C1 4.7µ35
R8 47K D8 Q1
R9 1K 0V
R10 10K R11 1K C2 1µ50 C3 0.047/5.5 R12 1K C4 100µ10 4.7V
D6 D7 4.8V
D5
D36
D9 R15 330
R17 100K
R18 100K
D10 R16 330
R13 100K R14 100K
D11 D12 D13 D14
R46 4.7K

D15 D16 D17 D18 D19 D20 D21 D22
-16.6V -25.8V -24.0V -29.0V -22.8V -32.0V -7.5V

7 S8 8 S9 9 S10 0 S11 +10 S12 AUTO S13
6 S7 5 S6 4 S5 3 S4 2 S3 1 S2 POWER S1
N.B S31 SP.B S30 SP.A S29 CENTER MODE S32 DSP S19 DSP LOGIC S20 3STEREO S21
PRO LOGIC S22 LINE STRAIGHT S24 BALANCE L S34 BALANCE R S35 VISUAL FIX S33 BYPASS S23 MODE S36
DIRECT S14 MEMORY S15 BAND S25 DOWN S26 UP S27 TAPE2 S28

*D23 *D24 D26 *D28 *Q3 2.8V 2.7V
CP2 10Kx5

(80) (79) (78) (77) (76) (75) (74) (73) (72) (70) (69) (68) (67) (66) (65) (64) (63) (62) (61) (60)
80 5G 79 4G 78 3G 77 2G 76 P1 75 P2 74 P3 73 P4 72 P5 71 -30V 70 P6 69 P7 68 P8/KS0 67 P9/KS1 66 P10/KS2 65 P11/KS3

(1) (2) (3) (4) (5) (6)
6G 7G 8G 9G 10G 11G VDD

PROTECT/CLK 4/8MHz/DATA Y.CE SEL ST POWER RELAY SP.B RELAY SP.A RELAY SP.CS RELAY RESET Y.IC E.VOL CE AVSS CE T.MUTE STEREO SD PLL DO PLL CE ATT S.LEVEL AVDO AVREF V.ENC B NC VSS X1 X2 V.ENC A M.ENC B M.ENC A SEL.ENC B SEL.ENC A

4.6V 4.7V 0.2V 0V 4.7V 2.2V 2.8V

EDS

IC1
(BOTTOM VIEW)

X1 4.194MHz

(31) (36) (37) (38) (39) (40)

P12/KS4 P13/KS5 P14/KS6 P15/KS7 P16/KS8 KR0 KR1 KR2 KR3 KR4 NOISE MUTE MUTE VDD DATA MUTE STAND BY LED VIDEO 1/2 VSS(1C) REMOCON START DATA CLK RESET S.BUSY S.DATA

64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41

0V 1.7V 3.4V 0.1V 4.8V 2.6V 2.7V RDS

R61 10K R62 10K R63 10K R64 10K

R37 1K R38 1K R39 1K R40 1K R41 1K

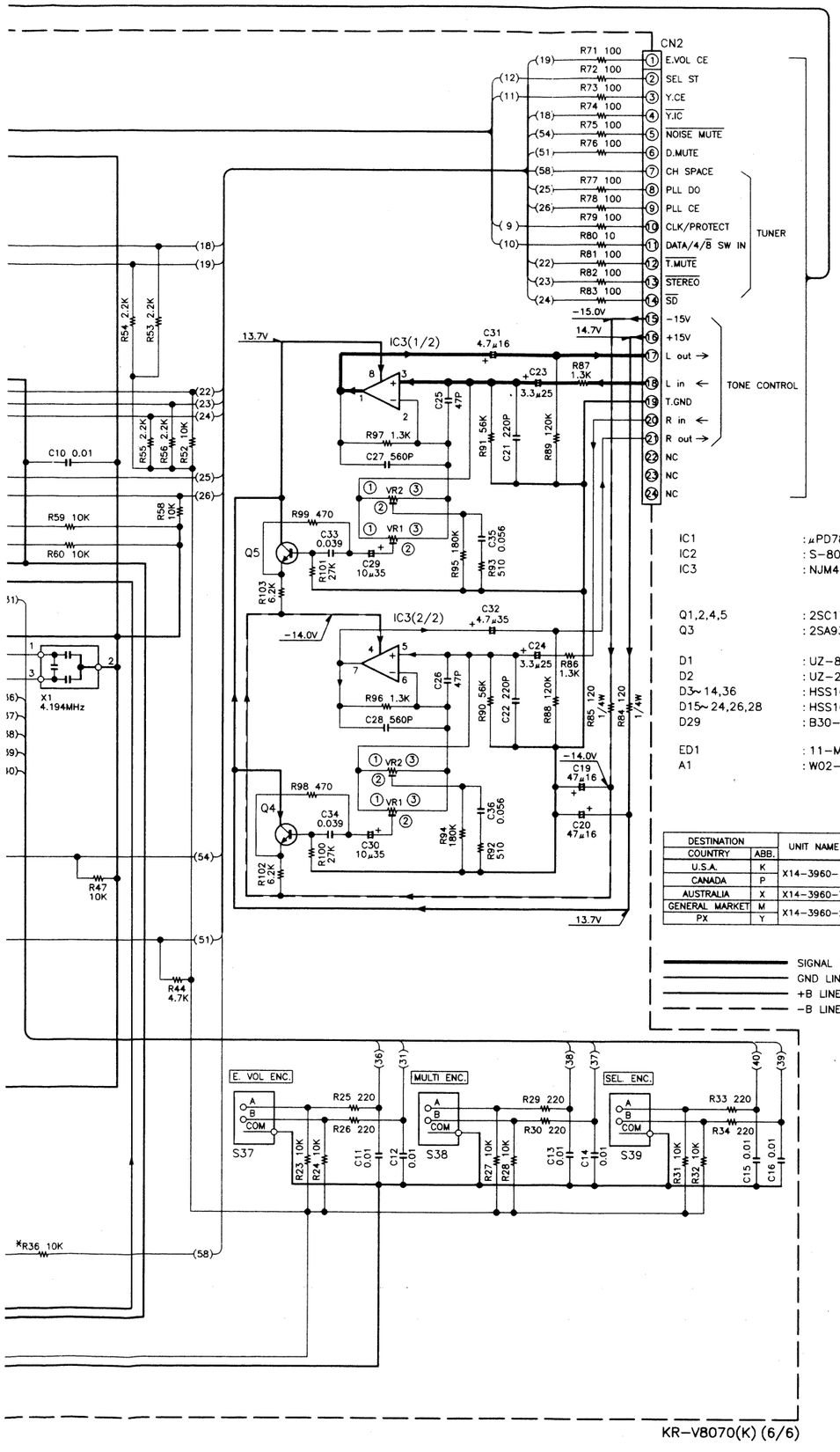
R47 10K

(54) (51) (58)

R43 560 D29 R42 4.7K

R44 4.7K

*R36 10K *R35 22K



IC1	: μPD78044AGF−071
IC2	: S−80740AL
IC3	: NJM4580D−D
Q1,2,4,5	: 2SC1740S(Q,R) or 2SC2785(F,E)
Q3	: 2SA933S(Q,R) or 2SA1175(F,E)
D1	: UZ−8.2BSB or RD8.2ES(B2)
D2	: UZ−2.7BSB or RD2.7ES(B2)
D3~14,36	: HSS104 or 1SS133
D15~24,26,28	: HSS104A or 1SS131
D29	: B30−2461−05
ED1	: 11−MT−99GK
A1	: W02−1153−05 or W02−1174−05

DESTINATION		UNIT NAME	D23	D24	D28	Q3	R35, 36
COUNTRY	ABB.						
U.S.A.	K	X14−3960−10	NO	NO	NO	NO	NO
CANADA	P						
AUSTRALIA	X	X14−3960−71	YES	YES			
GENERAL MARKET	M	X14−3960−21	YES	NO	YES	YES	YES
PX	Y						

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GND LINE
+B LINE
−B LINE

KR−V8070(K) (6/6)

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Y05-2940-10

KR-V8070

KENWOOD